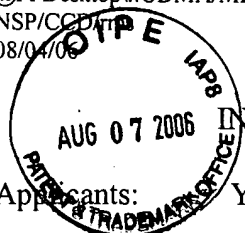


IFW



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Yi Hua Ma, Ivan P. Mardilovich and Erik E. Engwall

Application No.: 10/804,848

Group Art Unit: 1724

Filed: March 19, 2004

Examiner: Frank M. Lawrence, Jr.

Confirmation No.: 7504

Title: METHOD FOR CURING DEFECTS IN THE FABRICATION OF A COMPOSITE GAS SEPARATION MODULE

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
8/4/06	<i>Rhonda Scherer</i>
Date	Signature
RHONDA SCHERER	
Typed or printed name of person signing certificate	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

08/07/2006 HDEMESS1 00000078 10804848  
01 FC:1806 180.00 DP

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)
- ☐ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☒ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☒ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
  - ☒ Copies of the cited references are enclosed.
    - ☒ Copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
  - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
  - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☒ The "concise explanation" requirement (non-English references) for reference(s) AN1 under 37 CFR 1.98(a)(3) is satisfied by:
    - ☐ the explanation provided on the attached sheet.
    - ☐ the explanation provided in the Specification.
    - ☐ submission of the enclosed International Search Report.
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☒ the enclosed English language abstract.

- ☐ Applicant requests that the following Provisional Patent Application, now abandoned, be considered with the referenced published utility application, listed on the attached Form PTO-1449, to which priority is claimed.

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed, except any application filed on or after June 30, 2003, which has been scanned into the PTO's Image File Wrapper (IFW) system and is available to the examiner.
- ☐ A copy of the above-cited provisional application, now abandoned, is enclosed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☒ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 

N. Scott Pierce

Registration No.: 34,900

Telephone: (978) 341-0036

Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated: 8/4/06



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Yi Hua Ma, Ivan P. Mardilovich and Erik E. Engwall  
Application No.: 10/804,848 Group: 1724  
Filed: March 19, 2004 Examiner: Frank M. Lawrence, Jr.  
Confirmation No.: 7504  
For: METHOD FOR CURING DEFECTS IN THE FABRICATION OF A  
COMPOSITE GAS SEPARATION MODULE

CERTIFICATE OF MAILING OR TRANSMISSION	
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8/4/06	Rhonda Scherer
Date	Signature
RHONDA SCHERER	
Typed or printed name of person signing certificate	

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is an Amendment for filing in the above-identified application.

- [ ] Small entity status of this application under 37 C.F.R. 1.9 and 1.27 has been established by a Small Entity Statement previously submitted.
- [ ] A Small Entity Statement to establish small entity status under 37 C.F.R. 1.9 and 1.27 is enclosed.

**The claims fee has been calculated as shown below:**

	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA
TOTAL	48	MINUS	* 48	0
INDEP	2	MINUS	** 3	0
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				

SMALL ENTITY

RATE	ADDIT. FEE
X \$ 25	\$
X \$100	\$
+ \$180	\$

TOTAL= \$ 0

OR

OTHER THAN  
SMALL ENTITY

RATE	ADDIT. FEE
X \$50	\$ 0
X \$200	\$ 0
+ \$360	\$

TOTAL= \$ 0

\* not fewer than 20  
\*\* not fewer than 3

**The Application Size Fee has been calculated as shown below:**

*(Effective for cases filed on or after December 8, 2004)*

Actual Sheets (Including current amendment)	Highest No. of Sheets Paid For (At least 100)	No. of Additional Units Required (Increments of 50 sheets)

SMALL ENTITY

Rate	Total Amount Owed
X \$125	\$[ ]

OTHER THAN  
SMALL ENTITY

Rate	Total Amount Owed
X \$250	\$[ ]

Payment  
Sufficient for  
up to

[ ] Sheets

**Petition for Extension of Time**

[ ] Applicant hereby petitions to extend the time to respond to the [ ] dated [ ] for [ ] month(s) from [ ] to [ ]. The appropriate fee is set forth below.

**Please charge Deposit Account No. 08-0380 for the following fees:**

<input type="checkbox"/>	Petition for [ ] month Extension of Time	\$	_____
<input type="checkbox"/>	Claims Fee	\$	_____
<input type="checkbox"/>	Application Size Fee	\$	_____
<input type="checkbox"/>	Other Fees:		
	_____	\$	_____
	_____	\$	_____
	TOTAL:	\$	<u>0</u>

**A check is enclosed in payment of the following fees:**

<input type="checkbox"/>	Petition for [ ] month Extension of Time	\$	_____
<input type="checkbox"/>	Claims Fee	\$	_____
<input type="checkbox"/>	Application Size Fee	\$	_____
<input checked="" type="checkbox"/>	Other Fees:		
	Fee under 37 CFR 1.17(p)	\$	180
	_____	\$	_____
	TOTAL:	\$	<u>180</u>

☒ Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By

N. Scott Pierce

Registration No.: 34,900


Telephone (978) 341-0036

Facsimile (978) 341-0136

Concord, Massachusetts 01742-9133

Dated:

8/4/06

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 1021.2604-001		APPLICATION NO. 10/804,848	
		FIRST NAMED INVENTOR Yi Hua Ma		FILING DATE March 19, 2004	
		EXAMINER Frank M. Lawrence, Jr.		CONFIRMATION NO. 7504	
				GROUP 1724	

## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AF4	4,699,637	10/13/1987	Iniotakis, <i>et al.</i>
	AG4	4,857,080	08/15/1989	Baker, <i>et al.</i>
	AH4	6,309,546 B1	10/30/2001	Herrmann, <i>et al.</i>
	AI4	6,916,454 B2	07/12/2005	Alvin
	AJ4	6,964,697 B2	11/15/2005	Pan, <i>et al.</i>
	AK4	7,018,446 B2	03/28/2006	Alvin, <i>et al.</i>
	AA5	US 2003/0183080 A1	10/02/2003	Mundschau
	AB5	US 2003/0213365 A1	11/20/2003	Jantsch, <i>et al.</i>
	AC5	US 2005/0072304 A1	04/07/2005	Etievant, <i>et al.</i>

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO	
	AL2	WO 99/33545	07/08/1999	Lee, <i>et al.</i>		
	AM2	WO 2005/075060 A1	08/18/2005	Bossard, <i>et al.</i>		
	AN2	JP 10-028850	02/03/1998	Nonobe, <i>et al.</i>		

EXAMINER	DATE CONSIDERED
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